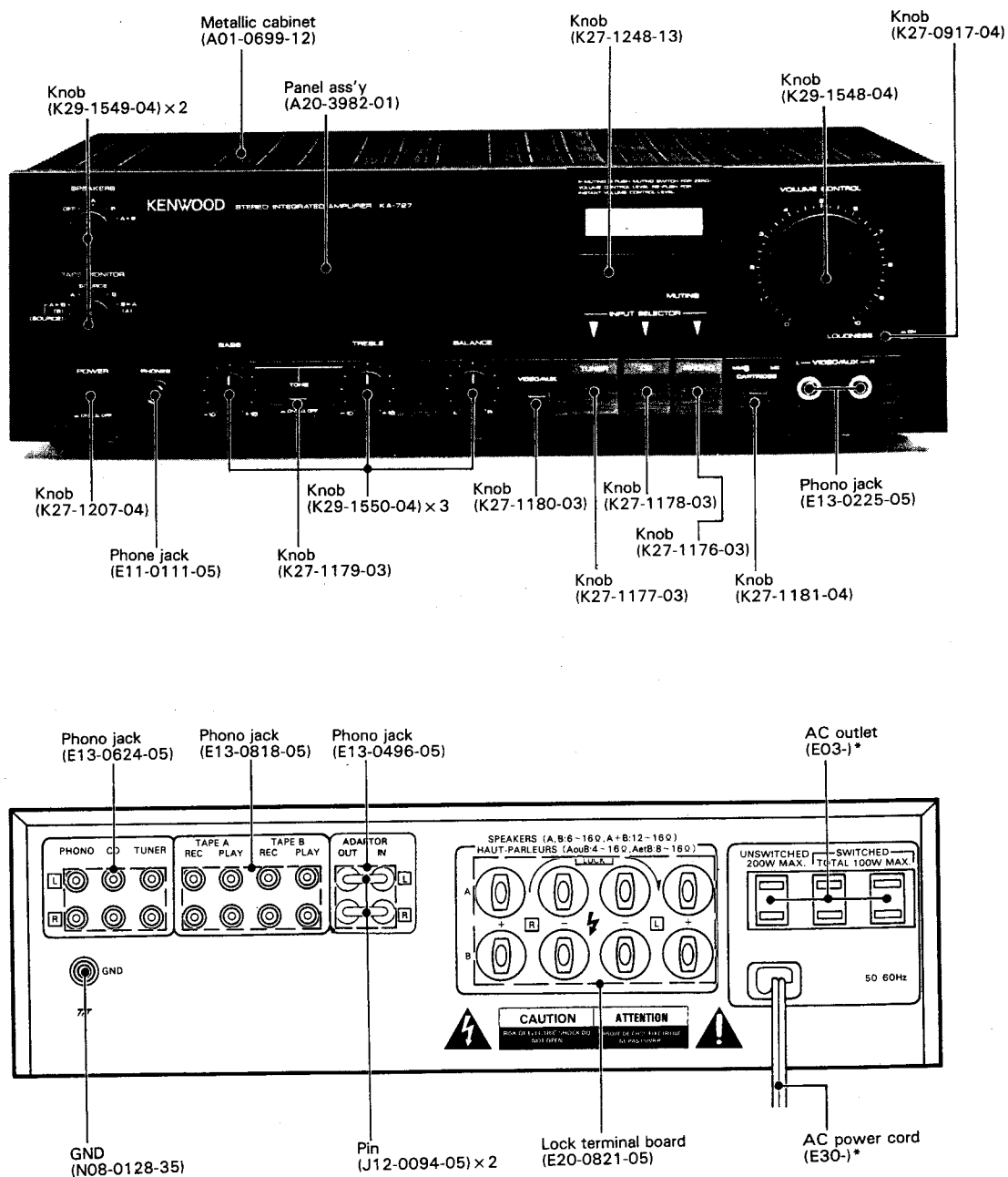


KENWOOD

KA-727

STEREO INTEGRATED AMPLIFIER

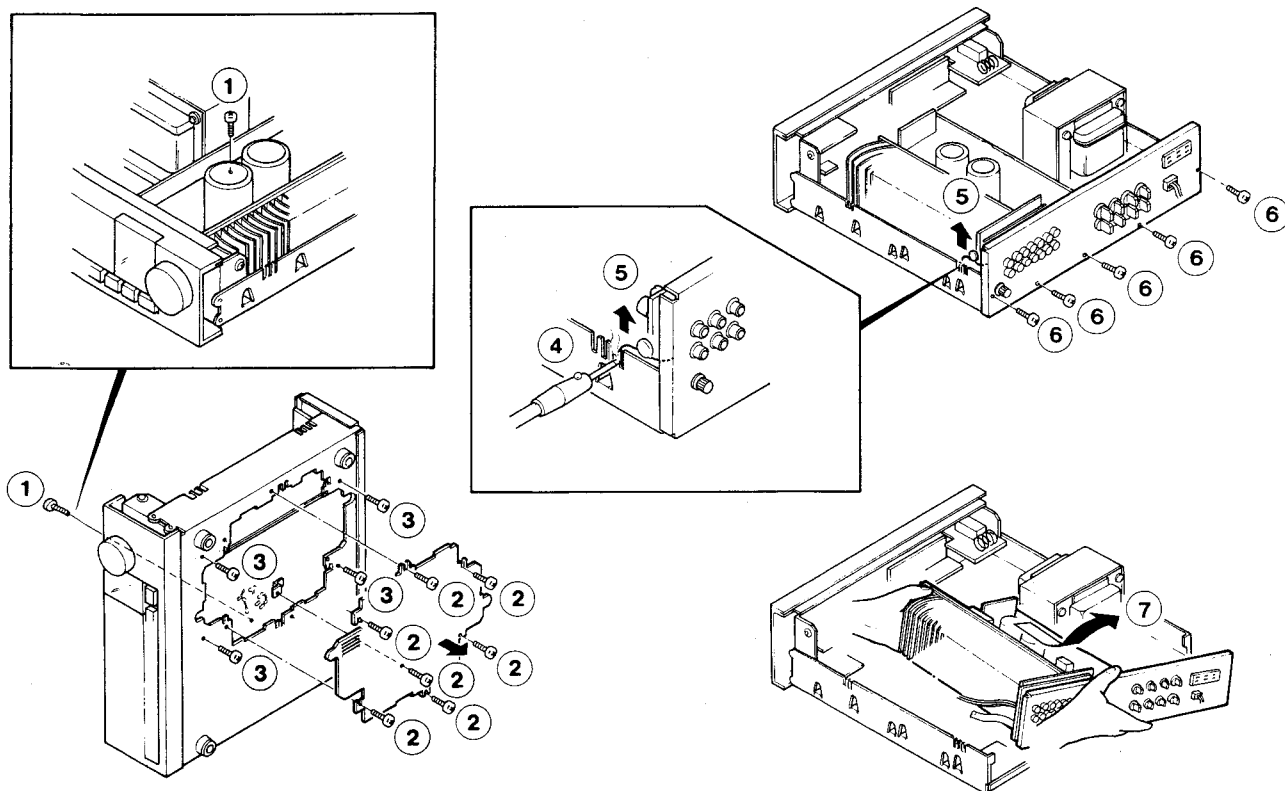


*Refer to Parts List on page 8.

DISASSEMBLY FOR REPAIR

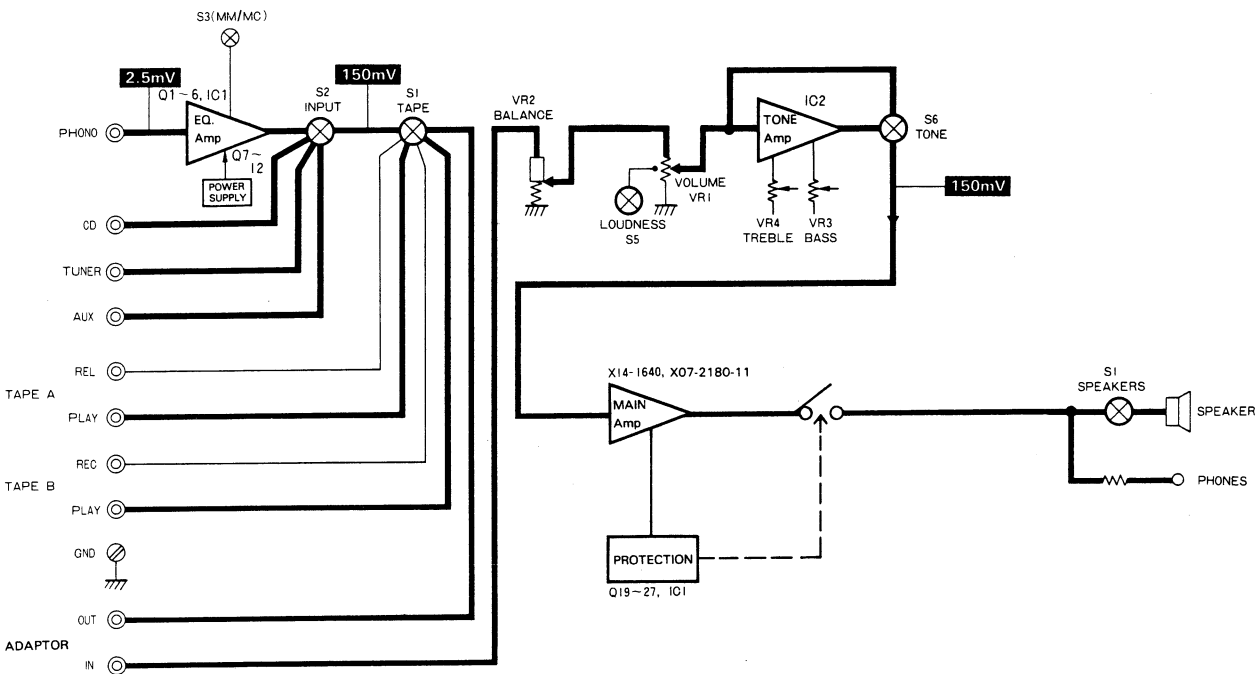
• Removal of Power Amplifier pcb (X07-2180-11)

1. Remove the metallic cabinet and a screw near the electrolytic capacitors C41 and C42. (①)
2. Remove the bottom plate and 4 screws retaining the mounting hardware to the chassis from the bottom side. (②, ③)
3. Unsolder the lead of the capacitor between the chassis and the rear panel. (④, ⑤)
4. Remove 5 screws retaining the rear panel to the chassis. (⑥)
5. The power amplifier pcb, with the rear panel and mounting hardwares, can be separated from the rest. This allows the components to be replaced easily. (⑦)



BLOCK & LEVEL DIAGRAM/CIRCUIT DESCRIPTION

BLOCK & LEVEL DIAGRAM



CIRCUIT DESCRIPTION

Circuit No.	Application and function	Operation and conditions
X07-2180-11	Q1, 2	Compensating temperature
	Q3 ~ 10	Driver
	Q11 ~ 18	Final
	Q19 ~ 26	Current limiter
	Q27	Protection driver
	Q28	Lamp driver
X08-2150-01	IC1	Protection IC
	IC1	Equalizer amp
	IC2	Tone amp
	Q1 ~ 4	Equalizer input differential amp
	Q5, 6	Equalizer input differential amp for constant current
	Q7, 8	Stabilized power supply for the equalizer amp
	Q9, 10	Constant current for stabilized power supply for equalizer amp
	Q11, 12	First off for stabilized power supply for equalizer amp

ADJUSTMENT/REGLAGES/ABGLEICH

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	IDLE CURRENT	—	Connect a DC voltmeter across TP13,14 (L) TP15,16 (R)	VOLUME: 0	VR1 (L) VR2 (R)	22mV	(a)

REGLAGES

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINS L'ALIGNEMENT	ALIGNER POUR	FIG.
1	COURANT DE POLARISATION	—	Connecter un voltmètre de CC sur TP13,14 (G) TP15,16 (D)	VOLUME: 0	VR1 (G) VR2 (D)	22mV	(a)

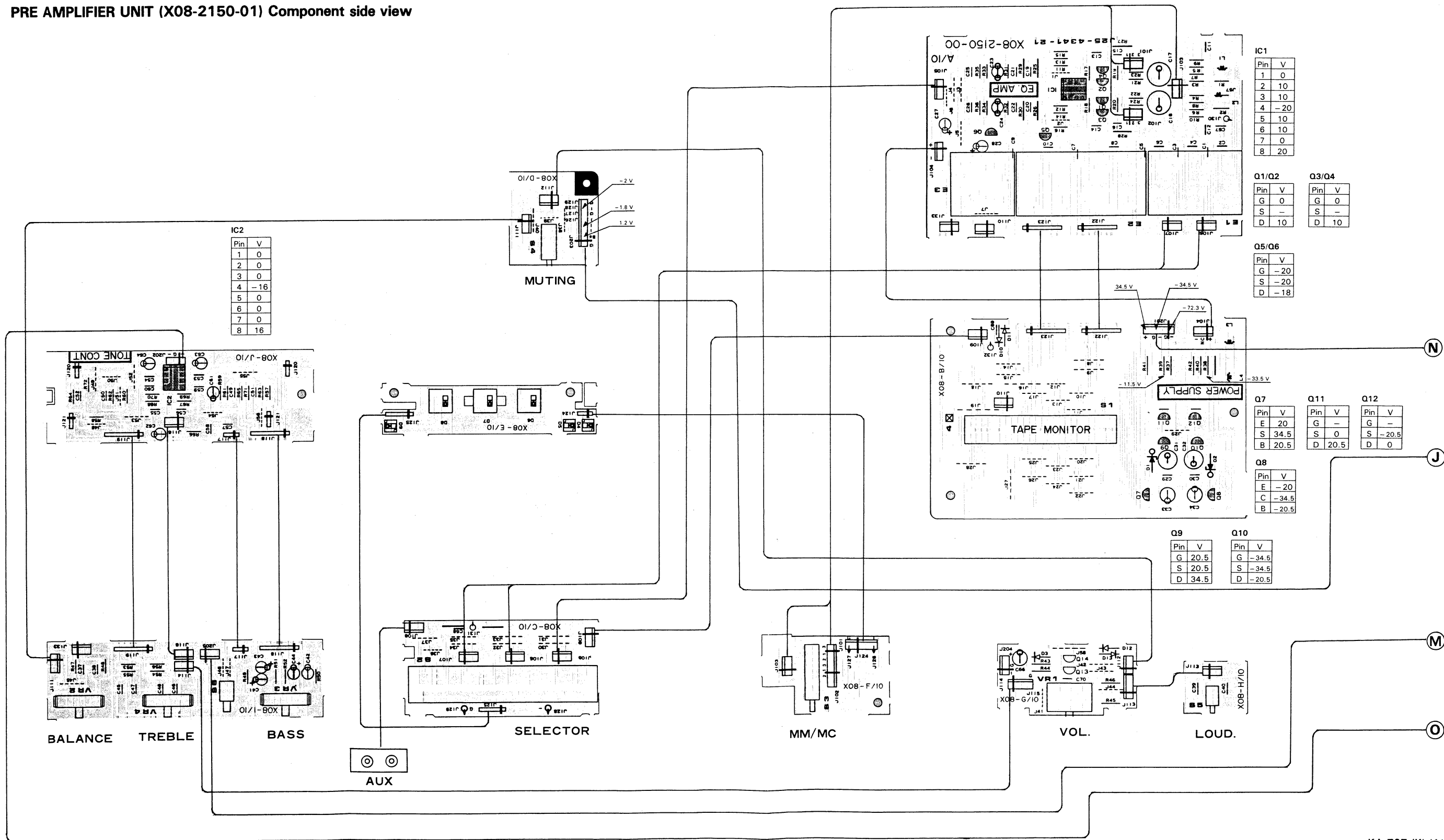
ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	VORSTÄRKER EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
1	LEERLAUFSTROM	—	Einen Gleichspannungsmesser über TP13,14 (L) TP15,16 (R) anschließen	VOLUME: 0	VR1 (L) VR2 (R)	22mV	(a)

KA-727 KA-727

PC BOARD

PRE AMPLIFIER UNIT (X08-2150-01) Component side view



KA-727 (K) (1/2)

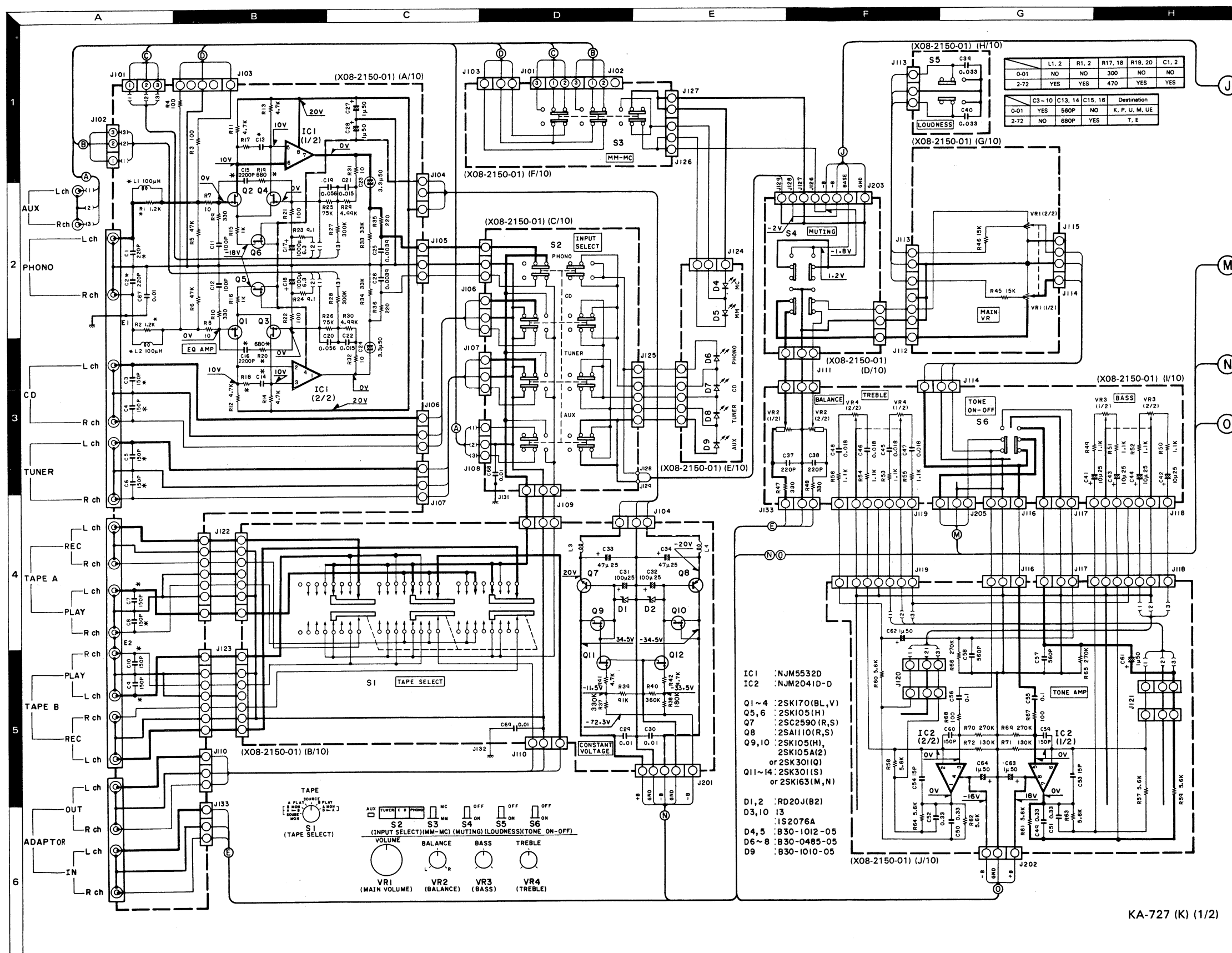


FRONT

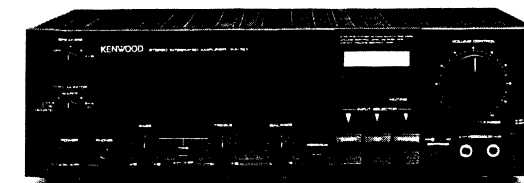
KENWOOD

STEREO INTEGRATED AMPLIFIER

KA-727



KA-727 (K) (1/2)



Specifications

Power Amplifier Section

Power Output
75 watts* per channel minimum RMS, both channels driven at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.008% total harmonic distortion.

Both Channels Driven into
8 ohms at 1 kHz 0.003% 80 W + 80 W

Total Harmonic Distortion
(20 Hz to 20,000 Hz)
CD, VIDEO/AUX input to
SPEAKER output 0.008% at rated power
into 8 ohms
0.006% at 1/2 rated power
into 8 ohms

Intermodulation Distortion
(60 Hz:7 kHz = 4:1) 0.004% at rated power
into 8 ohms

Frequency Response 8 Hz to 150 kHz, -3 dB

Input Sensitivity/Impedance

Phono MM 2.5 mV/47 k ohms

Phono MC 0.2 mV/100 ohms

Tuner, CD, VIDEO/AUX, Tape 150 mV/47 k ohms

Signal-to-Noise Ratio (IHF, A)

Phono MM 87 dB for 2.5 mV input

Phono MC 69 dB for 250 μ V input

Tuner, CD, VIDEO/AUX, Tape 107 dB

Maximum Input Level for Phono

MM 200 mV (RMS), T.H.D. 0.008%

at 1,000 Hz

MC 17 mV (RMS), T.H.D. 0.008%

at 1,000 Hz

Output Level/Impedance

Tape REC (Pin) 150 mV/330 ohms

Frequency Response for Phono RIAA standard curve ± 0.3 dB

(30 Hz to 20 kHz)

Tone Control

Bass ± 10 dB at 100 Hz

Treble ± 10 dB at 10 kHz

Loudness Control

(at -30 dB VOLUME Level) +6 dB at 100 Hz

General

Power Consumption 4.0 A (U.S.A. and Canada)

220 W (others)

23 W (no signal)

AC Outlets Switched 2, Unswitched 1 (Except

European/Australian countries)

Dimensions W: 340 mm (13-13/32")

H: 109 mm (9-7/32")

D: 369 mm (14-17/32")

Weight (Net) 8.3 kg (18.3 lb)

* Measured pursuant to Federal Trade Commission's Trade Regulation

rule on Power Output Claims for Amplifier in U.S.A.

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

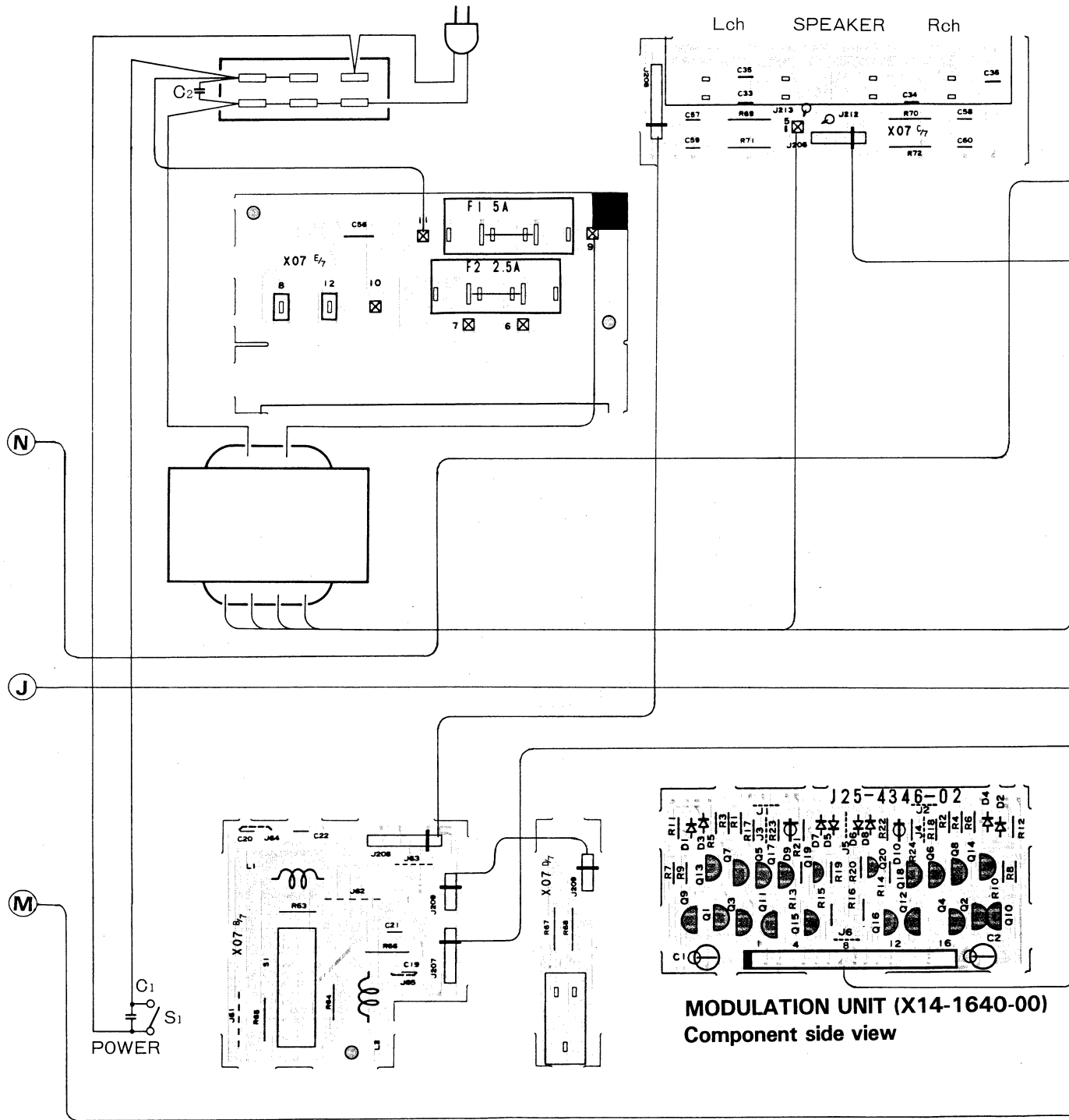
Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

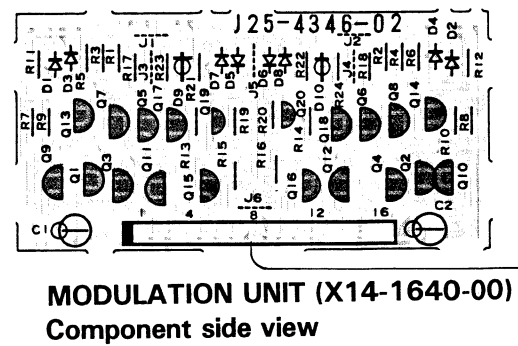
KA-727 KA-727

PC BOARD

MAIN AMPLIFIER UNIT (X07-2180-11) Component side view



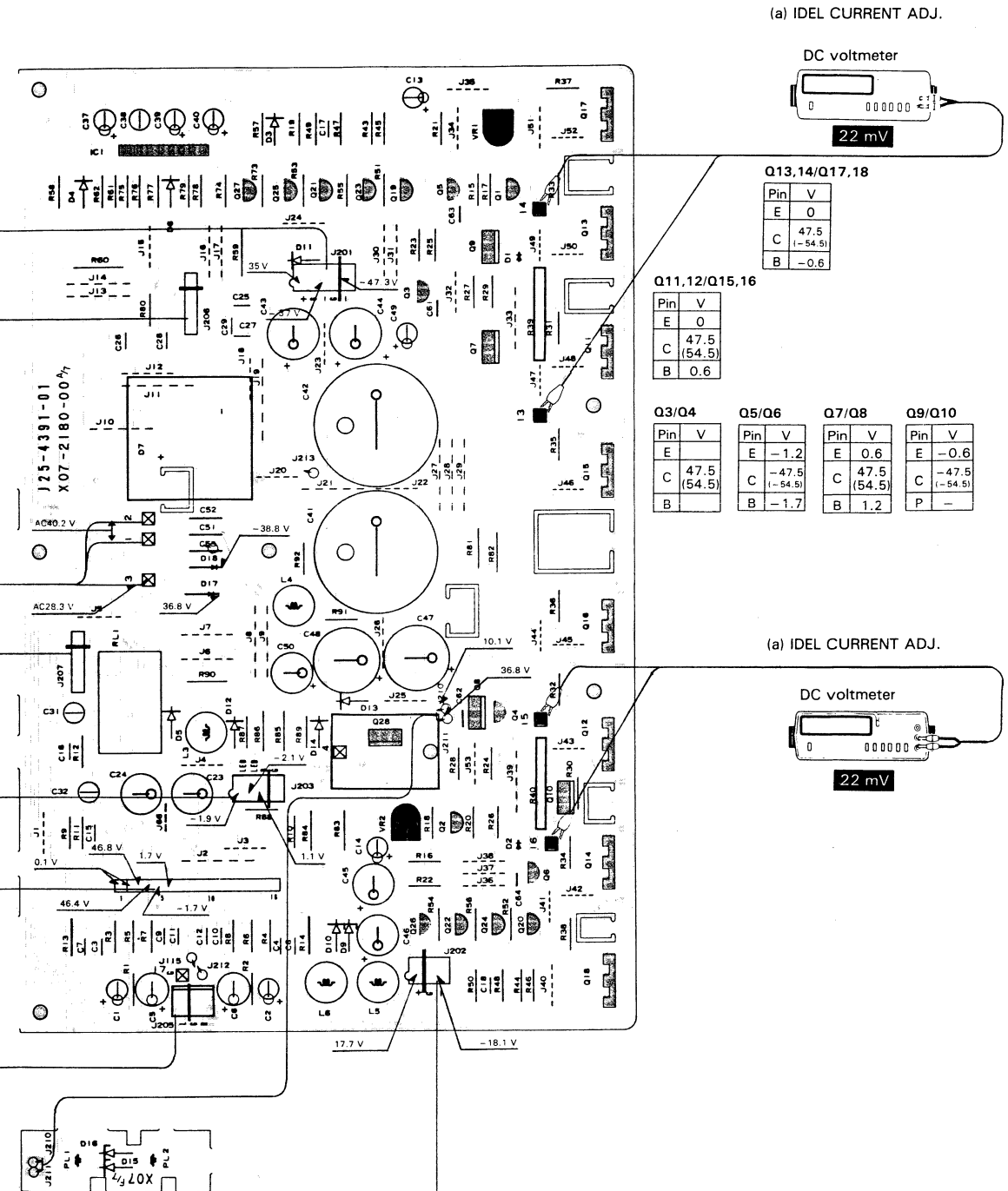
Pin	V
1	0
2	0
3	0
4	1.9
5	0
6	0.8
7	2.2
8	3.2



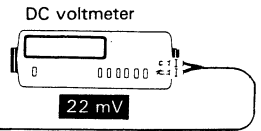
MODULATION UNIT (X14-1640-00)
Component side view



FRONT



(a) IDEL CURRENT ADJ.



Q13,14/Q17,18

Pin	V
E	0
C	47.5 (-54.5)
B	-0.6

Q11,12/Q15,16

Pin	V
E	0
C	47.5 (-54.5)
B	0.6

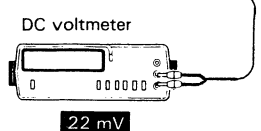
Pin	V
E	0
C	47.5 (-54.5)
B	-1.7

Pin	V
E	-1.2
C	-47.5 (-54.5)
B	-1.7

Pin	V
E	0.6
C	47.5 (-54.5)
B	1.2

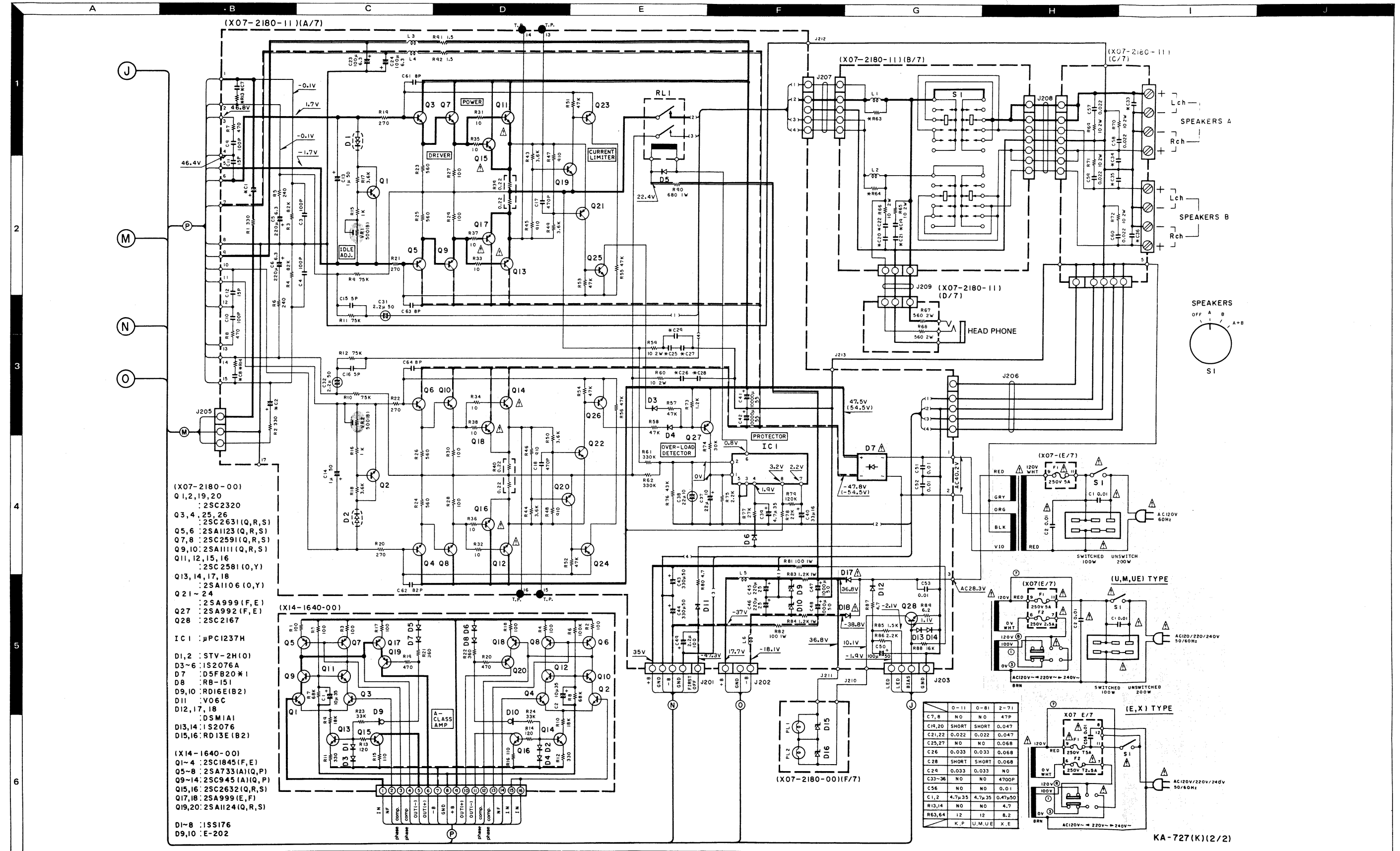
Pin	V
E	-0.6
C	-47.5 (-54.5)
P	-

(a) IDEL CURRENT ADJ.



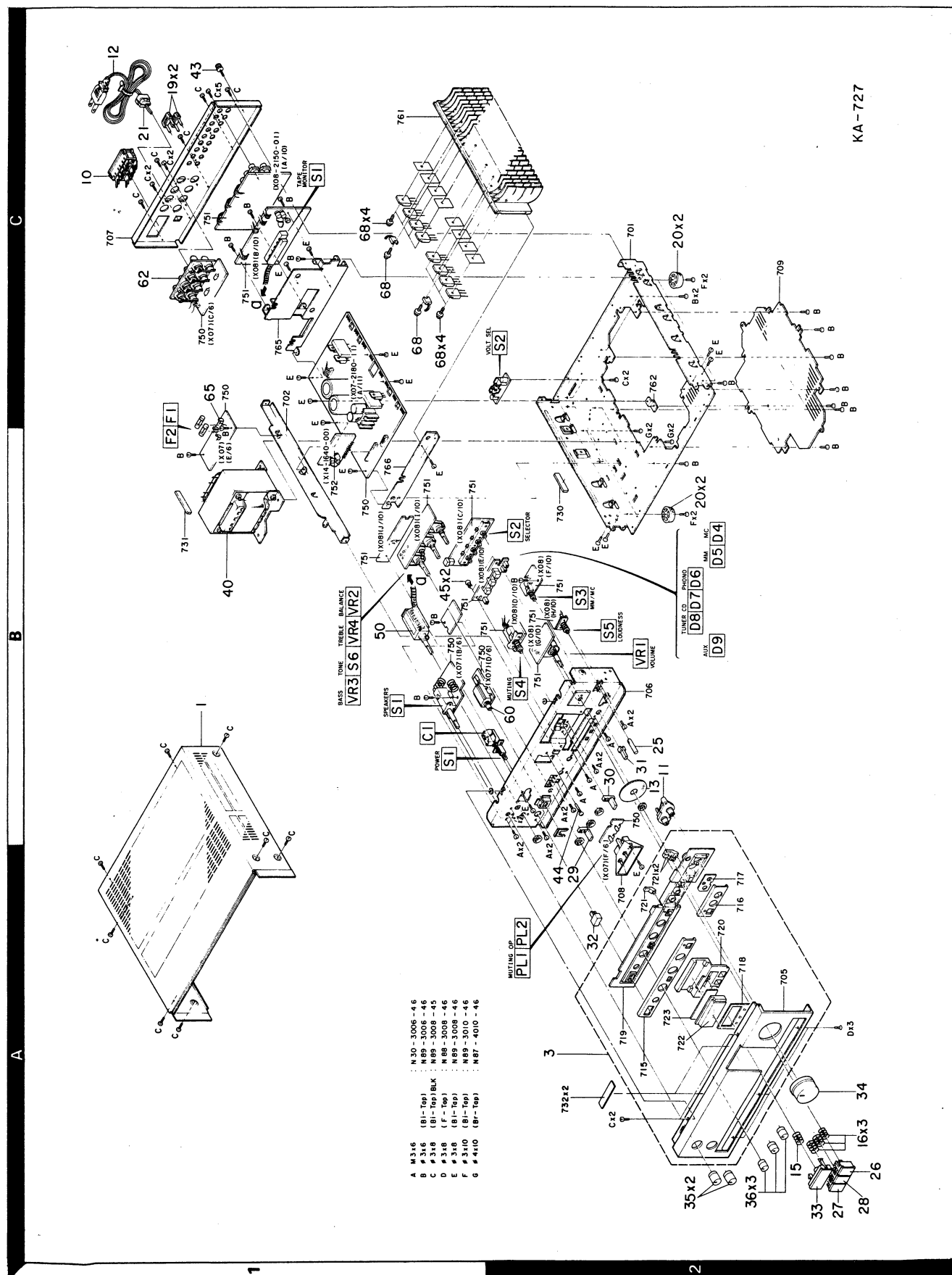
KA-727 (K) (2/2)

Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

EXPLODED VIEW



PARTS LIST

* New Parts
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Teile ohne Parts No. werden nicht geliefert.

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation	Re- marks
参照番号	位置	新	部品番号	部品名 / 規格	仕向	備考
KA-727						
1	1B		A01-0699-12	METALLIC CABINET		
3	2A	*	A20-3982-01	PANEL ASSY		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0093-03	WARRANTY CARD	P	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0098-03	WARRANTY CARD	E	
-			B50-5180-00	INSTRUCTION MANUAL(ENGLISH)	PMXE	
-			B50-5181-00	INSTRUCTION MANUAL(FRENCH)	E	
-			B50-5182-00	INSTRUCTION MANUAL(G,D,I)	M	
-			B50-5183-00	INSTRUCTION MANUAL(SPANISH)		
-			B58-0222-14	CAUTION CARD (PRESET 220V)	UE	
-			B58-0223-04	CAUTION CARD (PRESET 120V)	U	
-			B58-0245-23	CAUTION CARD	E	
-			B58-0269-04	CAUTION CARD	K	
-			B59-0092-00	SERVICE DIRECTORY	UUE	
△ C1	1B		C91-0023-05	CERAMIC 0.01UF AC250V	UMUE	
△ C1	1B		C91-0647-05	CERAMIC 0.01UF P	KP	
△ 10	1C		E03-0061-05	AC OUTLET	KPUM	
△ 10	1C		E03-0061-05	AC OUTLET	UE	
△ 11	2B		E13-0225-05	PHONE JACK		
△ 12	1C		E30-0181-05	AC POWER CORD	K	
△ 12	1C		E30-0580-05	AC POWER CORD	E	
△ 12	1C		E30-0685-05	AC POWER CORD	UMUE	
△ 12	1C		E30-0780-05	AC POWER CORD	P	
△ 12	1C		E30-1341-05	AC POWER CORD	X	
13	2B		F19-0295-04	BLIND PLATE		
15	2A		G01-0489-04	COMPRESSION SPRING(MUTING)		
16	2A		G01-1452-04	COMPRESSION SPRING(TUNER,CD,PH)		
-		*	H01-5185-04	ITEM CARTON CASE		
-			H10-1725-13	POLYSTYRENE FOAMED FIXTURE		
-			H10-1731-02	POLYSTYRENE FOAMED FIXTURE		
-			H10-1732-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0078-04	PROTECTION BAG (235X315)		
-			H25-0215-04	PROTECTION BAG (COVER)		
19	1C		J12-0094-05	PIN ADAPTOR SHORT PIN		
20	2B,2C		J02-0129-05	FOOT		
△ 21	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
25	2B		K27-0917-04	KNOB(BUTTON) LOUDNESS		
26	2A		K27-1176-03	KNOB(BUTTON) PHONE		
27	2A		K27-1177-03	KNOB(BUTTON) TUNER		
28	2A		K27-1178-03	KNOB(BUTTON) CD		
29	2A		K27-1179-03	KNOB(BUTTON) TONE ON/OFF		
30	2B		K27-1180-03	KNOB(BUTTON) AUX		
31	2B		K27-1181-04	KNOB(BUTTON) CARTRIDGE MM/MC		
32	2A		K27-1207-04	KNOB(BUTTON) POWER		
33	2A		K27-1248-13	KNOB(BUTTON) MUTING		
34	2A		K29-1548-04	KNOB VOLUME		

E: Scandinavia & Europe H: Audio Club K: USA P: Canada
S: South Africa T: England U: PX(Far East, Hawaii)
UE: AAFES(Europe) X: Australia M: Other Areas

△ indicates safety critical components.

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

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Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
35	2A		K29-1549-04	KNØB SPEAKERS, TAPE MONITOR		
36	2A		K29-1550-04	KNØB BASS, TREBLE, BALANCE		
Δ 40	1B	*	L01-3641-05	POWER TRANSFORMER	KP	
Δ 40	1B	*	L01-3646-05	POWER TRANSFORMER	UMUEX	
Δ 40	1B	*	L01-3646-05	POWER TRANSFORMER	E	
43	1C		N08-0128-35	BINDING POST GND		
44	2A		N09-0292-05	STEPPED SCREW Ø3X19		
45	1B		N29-0216-05	RIVET LED UNIT		
50	1B		S90-0076-05	REMOTE SWITCH SHAFT		
Δ S1	1B		S40-1073-05	PUSH SWITCH		
Δ S2	2C		S31-2082-05	SLIDE SWITCH (VOLTAGE SEL)	UMUEX	
Δ S2	2C		S31-2082-05	SLIDE SWITCH (VOLTAGE SEL)	E	
MAIN AMPLIFIER (X07-2180-11)						
PL1 ,2	2A		B30-1025-05	LAMP (14V 0.08A)MUTING		
C1 ,2			CE04FW1V4R7MEL	ELECTRØ 4.7UF 35WV		
C3 ,4			CC45FSL1H101J	CERAMIC 100PF J		
C5 ,6			CE04FW0J221MEL	ELECTRØ 220UF 6.3WV		
C7 ,8			CC45FSL1H470J	CERAMIC 47PF J		
C9 ,10			CC45FSL1H101J	CERAMIC 100PF J		
C11 ,12			CC45FSL1H150J	CERAMIC 15PF J		
C13 ,14			CE04FW1H010MEL	ELECTRØ 1.0UF 50WV		
C15 ,16			CC45FSL1H050C	CERAMIC 5.0PF C		
C17 ,18			CK45FB1H471K	CERAMIC 470PF K		
C19 -22			CF92FV1H473J	MF 0.047UF J		
C21 ,22			CF92FV1H223J	MF 0.022UF J		
C21 ,22			CF92FV1H223J	MF 0.022UF J		
C23 ,24		*	CE04FW1J470MEL	ELECTRØ 47UF 63WV		
C25 -28			CF92FV1H683J	MF 0.068UF J		
C26			CF92FV1H333J	MF 0.033UF J		
C26			CF92FV1H333J	MF 0.033UF J		
C29			CF92FV1H333J	MF 0.033UF J		
C29			CF92FV1H333J	MF 0.033UF J		
C31 ,32		*	CE04HW1H2R2MEL	NP-ELEC 2.2UF 50WV		
C33 -36		*	CK45FF1H472Z	CERAMIC 4700PF Z		
C37			CE04FW1A220MEL	ELECTRØ 22UF 10WV		
C38			CE04HW1A220MEL	NP-ELEC 22UF 10WV		
C39			CE04FW1V4R7MEL	ELECTRØ 4.7UF 35WV		
C40			CE04FW1C330MEL	ELECTRØ 33UF 16WV		
C41 ,42			C90-0492-05	ELECTRØ 10000UF 56WV		
C43 ,44			CE04FW1H331MEL	ELECTRØ 330UF 50WV		
C45 ,46		*	CE04FW1E221MEL	ELECTRØ 220UF 25WV		
C47 ,48			CE04FW1H102MEL	ELECTRØ 1000UF 50WV		
C49		*	CE04FW2A2R2MEL	ELECTRØ 2.2UF 100WV		
C50			CE04FW1H101MEL	ELECTRØ 100UF 50WV		
C51 -53			CK45E2H103P	CERAMIC 0.01UF P		
Δ C56			C91-0647-05	CERAMIC 0.01UF P		
C57 -60			CF92FV1H223J	MF 0.022UF J		
C61 -63			CC45FSL1H080D	CERAMIC 8.0PF D		
C64			CC45FSL1H080D	CERAMIC 8.0PF D		
60	2B		E11-0111-05	PHONE JACK (HEADPHONE)		
62	1C		E20-0821-05	LOCK TERMINAL BOARD(SPEAKERS)		
Δ E1	1C		E05-5022-05	FUSE 250V 5A	UMUE	

E: Scandinavia & Europe H: Audio Club K: USA

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S: South Africa

T: England

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
△ F1	1C		F05-5025-05	FUSE (SEMKO) 250V T5A	XE	
△ F1	1C		F06-5022-05	FUSE (UL) 250V 5A	KP	
△ F2	1B		F05-2521-05	FUSE 250V 2.5A	UMUE	
△ F2	1B		F05-2525-05	FUSE (SEMKO) 250V T2.5A	XE	
65	1C		J13-0041-05	FUSE CLIP	KPUM	
65	1C		J13-0041-05	FUSE CLIP	UE	
65	1C		J13-0054-05	FUSE CLIP	XE	
L1 ,2			L39-0080-15	PHASE-COMPENSATION COIL		
L3 -6			L33-0275-05	CHOKER COIL		
68	1C		N09-0333-05	TAPPING SCREW (Ø3X12)		
R19 -22		*	RD14AB2E271JTS	FL-PROOF RD 270 J 1/4W		
R23 -26		*	RD14AB2E561JTS	FL-PROOF RD 560 J 1/4W		
R27 -30		*	RD14AB2E101JTS	FL-PROOF RD 100 J 1/4W		
R31 -38		*	RD14AB2E100JTS	FL-PROOF RD 10 J 1/4W		
R39 ,40			R90-0187-05	MULTI-COMP 0.22X2 K 5W		
R59 ,60			RS14DB3D100J	FL-PROOF RS 10 J 2W		
R63 ,64		*	RS14DB3A120J	FL-PROOF RS 12 J 1W		
R65 ,66			RS14DB3D100J	FL-PROOF RS 10 J 2W		
R67 ,68			RS14DB3D561J	FL-PROOF RS 560 J 2W		
R69 -72			RS14DB3D100J	FL-PROOF RS 10 J 2W		
R80			RD14AB2E4R7JTS	FL-PROOF RD 4.7 J 1/4W		
R81 ,82			RS14DB3A101J	FL-PROOF RS 100 J 1W		
R83 ,84			RS14DB3A122J	FL-PROOF RS 1.2K J 1W		
R85			RS14DB3A152J	FL-PROOF RS 1.5K J 1W		
R86			RS14DB3A222J	FL-PROOF RS 2.2K J 1W		
R87			RD14AB2E4R7JTS	FL-PROOF RD 4.7 J 1/4W		
R89		*	RD14AB2E6R2JTS	FL-PROOF RD 6.2 J 1/4W		
R90			RS14DB3A681J	FL-PROOF RS 680 J 1W		
R91 ,92			RD14AB2E1R5JTS	FL-PROOF RD 1.5 J 1/4W		
VR1 ,2			R12-0306-05	TRIMMING POT(500) IDLE ADJ		
RL1			S51-2045-05	MAGNETIC RELAY		
S1	1B		S29-1137-05	ROTARY SLIDE SWITCH(SPEAKERS)		
D1 ,2			STV-2H(Ø)	VARIATOR		
D3 -6			1S2076A	DIODE		
△ D7		*	D5FB20*1	DIODE		
D9 ,10			RD16E(B2)	ZENER DIODE		
D11			V06C	DIODE		
D12			DSM1A1	DIODE		
D13 ,14			1S2076	DIODE		
D15 ,16			RD13E(B2)	ZENER DIODE		
△ D17 ,18			DSM1A1	DIODE		
IC1			UPC1237H	IC PROTECTION		
Q1 ,2			2SC2320	TRANSISTOR		
Q3 ,4			2SC2631(Q,R,S)	TRANSISTOR		
Q5 ,6			2SA1123(Q,R,S)	TRANSISTOR		
Q7 ,8			2SC2591(Q,R,S)	TRANSISTOR		
Q9 ,10			2SA1111(Q,R,S)	TRANSISTOR		
△ Q11 ,12		*	2SC2581(Ø)	TRANSISTOR		
△ Q11 ,12		*	2SC2581(Y)	TRANSISTOR		
△ Q13 ,14		*	2SA1106(Ø)	TRANSISTOR		
△ Q13 ,14		*	2SA1106(Y)	TRANSISTOR		
△ Q15 ,16		*	2SC2581(Ø)	TRANSISTOR		

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△ Q15 ,16 △ Q17 ,18 △ Q17 ,18 Q19 ,20 Q21 -24		*	2SC2581(Y) 2SA1106(N) 2SA1106(Y) 2SC2320 2SA999(E,F)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q25 ,26 Q27 Q28			2SC2631(Q,R,S) 2SA992(F,E) 2SC2167	TRANSISTOR TRANSISTOR TRANSISTOR		
PRE AMPLIFIER (X08-2150-01)						
D4 ,5 D6 -8 D9	2B 2B 2B		B30-1012-05 B30-0485-05 B30-1010-05	LED(SLP-981C-50) MM,MC LED(SLF-202B-01) INPUT LED(SLP-281F-50U)AUX		
C1 ,2 C3 -10 C11 ,12 C13 ,14 C13 ,14			CC45FSL1H221J CC45FSL1H151J C91-0088-05 CK45FB1H561K CK45FB1H561K	CERAMIC 220PF J CERAMIC 150PF J POLYSTY 100PF K CERAMIC 560PF K CERAMIC 560PF K	XE XE K PUM UE	
C13 ,14 C15 ,16 C17 ,18 C19 ,20 C21 ,22		*	CK45FB1H681K CK45FB1H222K C90-1281-05 CF92FV1H563J CF92FV1H153J	CERAMIC 680PF K CERAMIC 2200PF K ELECTRO 1000UF 6.3WV MF 0.056UF J MF 0.015UF J	XE XE	
C23 ,24 C25 ,26 C27 ,28 C29 ,30 C31 ,32		*	C90-1283-05 CF92FV1H392J CE04FW1H010MEL CF92FV1H103J C90-1282-05	ELECTRO 3.3UF 50WV MF 3900PF J ELECTRO 1.0UF 50WV MF 0.010UF J ELECTRO 100UF 25WV		
C33 ,34 C37 ,38 C39 ,40 C41 C42			CE04FW1E470MEL CC45FSL1H221J CF92FV1H333J CE04FW1E100MEL CE04FW1E100MEL	ELECTRO 47UF 25WV CERAMIC 220PF J MF 0.033UF J ELECTRO 10UF 25WV ELECTRO 10UF 25WV		
C43 ,44 C45 -48 C49 -52 C53 ,54 C55 ,56			CE04FW1E100MEL CF92FV1H183J CF92FV1H334J CC45FSL1H150J CF92FV1H104J	ELECTRO 10UF 25WV MF 0.018UF J MF 0.33UF J CERAMIC 15PF J MF 0.10UF J		
C57 ,58 C59 ,60 C61 -64 C67			CK45FB1H561K CC45FSL1H151J CE04FW1H010MEL CK45FF1H103Z	CERAMIC 560PF K CERAMIC 150PF J ELECTRO 1.0UF 50WV CERAMIC 0.01UF Z	XE	
E1 E2 E3		*	E13-0624-05 E13-0818-05 E13-0496-05	PHONE JACK(6P) PHONE,CD,TUNER PHONE JACK(8P) TAPE A/B PHONE JACK(4P) ADAPTOR		
L1 ,2 L3 ,4			L40-1011-43 L33-0275-05	SMALL FIXED INDUCTOR(100UH,K) CHOKE COIL	XE	
R25 ,26 R27 ,28 R29 ,30 VR1 VR2	2B 1B	*	RN14DK2E753J RN14DK2E304J RN14DK2E4991G R06-5099-05 R06-5125-05	RN 75K J 1/4W RN 300K J 1/4W RN 4.99K G 1/4W POTENTIOMETER(100KX2)VOLUME POTENTIOMETER(200KX2)BALANCE		
VR3 ,4	1B	*	R06-3042-05	POTENTIOMETER(10KX2) BASS,TREB		

E: Scandinavia & Europe

H: Audio Club K: USA

P: Canada

S: South Africa

T: England

U: PX(Far East, Hawaii)

UE: AAFES(Europe)

X: Australia

M: Other Areas

△ indicates safety critical components.

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
S1	1C		S90-0070-05	SLIDE SWITCH TAPE MONITOR		
S2	2B	*	S42-4038-05	PUSH SWITCH(4KEY) INPUT SELECT		
S3	2B	*	S40-6025-05	PUSH SWITCH CARTRIDGE MM/MC		
S4	2B		S40-4045-05	PUSH SWITCH MUTING		
S5 ,6	1B,2B		S40-2122-05	PUSH SW LOUDNESS, TONE ON/OFF		
D1 ,2			RD20J(B2)	ZENER DIODE		
IC1		*	NJM5532D	IC OP AMP		
IC2			NJM2041D-D	IC OP AMP		
Q1 -4			2SK170(BL,V)	FET		
Q5 ,6			2SK105(H)	FET		
Q7			2SC2590(R,S)	TRANSISTOR		
Q8			2SA1110(R,S)	TRANSISTOR		
Q9 ,10			2SK105(H)	FET		
Q9 ,10			2SK105A(2)	FET		
Q9 ,10			2SK301(Q)	FET		
Q11 ,12			2SK163(M,N)	FET		
Q11 ,12			2SK301(S)	FET		
MODULATION (X14-1640-00)						
C1 ,2		*	CE04FW1V100MEL	ELECTRO 10UF 35WV		
D1 -8			1SS176	DIODE		
D9 ,10		*	E-202	CONSTANT CURRENT DIODE		
Q1 -4			2SC1845(F,E)	TRANSISTOR		
Q5 -8			2SA733(A)(Q,P)	TRANSISTOR		
Q9 -14			2SC945(A)(Q,P)	TRANSISTOR		
Q15 ,16			2SC2632(Q,R,S)	TRANSISTOR		
Q17 ,18			2SA999(E,F)	TRANSISTOR		
Q19 ,20			2SA1124(Q,R,S)	TRANSISTOR		

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⚠ indicates safety critical components.

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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